Instructional Technology Newsline

Department of Elementary and Secondary Education

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Instructional Technology Staff
(573) 751-8247

http://www.dese.state.mo.us/divimprove/instrtech/
newsletters

◆ Deborah S. Sutton, Director
◆ Claranne Vogel, Supervisor
◆ Lisa Walters, Library Media and Technology Consultant
◆ Rosalyn Wieberg, Supervisor
◆ Shirley Brumley, Administrative Assistant

◆ Instructional Technology Update

On June 28-July 2, the State Educational Technology Directors Association (SETDA) held its Emerging Technologies Forum and Annual Convocation in conjunction with NECC 2003 in Seattle. The Forum allowed attendees to interact with 18 companies to talk about their needs, interests, developments down the road, and the like. The Convocation included opening remarks from John Bailey (ED), an update on the Partnership for 21st Century Skills, a panel and small group discussions on how states are dealing with issues such as budget reductions, evaluating programs, collaborating with others, and integrating technology across federal programs. And, at the end of the Convocation, ED hosted additional workshops to discuss upcoming Title IID (Enhancing Education Through Technology) Program reviews (at national and state levels), their

review of state education technology plans, and their new grant competition to support state research projects.

I attended along with representatives from 42 other states, the District of Columbia, and the Bureau of Indian Affairs. The days were very well spent. I came back with lots of information to share and with a renewed sense of hope and resolve. I am looking forward to working with you in the new school year ahead. -Deb

FY04 Technology Budgets and Grant Programs
State Funding:
TAG – Not funded for FY04.

TNP – No changes at this time.

Safe Schools – The application process for a FY04 Safe Schools grant is closed. Only continuation grants were funded: 18 pilot and 75 safe schools grants. Currently there are no plans to entertain new, first-year grants for FY04.

Federal Funding:
Title IID Formula Grants – Districts can apply for these funds via the consolidated Federal Grants Application at http://k12apps.dese.state.mo.us/webapps/logon.asp. Last year, districts needed to provide additional information about their Title IID grants in their TAG applications. Since TAG will not be funded in FY04, districts can disregard any reference to the TAG application.

Title IID Competitive (eMINTS) Grants – The application process for FY04 competitive grants is closed. 40 second-year and 32 first-year applications were approved. Application materials for FY05 should be available in January 2004.

eMINTS Research Evaluation Reports
The eMINTS program recently posted three research evaluation reports based on an expansion school pilot that was conducted in 2000-2001 and 2001-2002. The expansion project was designed to identify successful strategies for extending the impact of eMINTS instructional resources beyond the third and fourth grades. Specifically, these reports address instructional practices and effective behavior management in eMINTS expansion classrooms, assessing instructional practices in eMINTS classrooms, and educational communities. The reports are available on the eMINTS website at http://emints.more.net/evaluation/reports/ .

District Technology Plan Approvals
The 2003 approval cycle is closed. Next year, 67 districts will need to have updated plans approved. Reminder letters will be sent to these districts next month.

Data Collection Efforts
Federal Data Needs:
Title IID Program Review – ED staff are conducting monitoring reviews that cover the granting process used for both formula grants and competitive grants, grant review process, program evaluation and accountability measures, administrative and non-administrative use of funds, technical assistance provided to LEAs, high need determination, and the state technology plan.

- PBDMI – The Performance Based Data Management Initiative, launched in response to new standards for accountability, is designed to leverage technology to reengineer ED's current data collection and management activities in order to reduce data collection burden to the States, improve the utility of information to all levels of the government, and meet the requirements of NCLB. The final product is a data repository that will provide performance information about schools and federal education programs. There are seven technology data elements included in the PBDMI. These address: number of computers by type and location; number of computers with Internet access; number of students who are technology literate; number of school personnel trained in technology by position;

number of technology professional development hours provided; average number of hours students work on computers per week; and, frequency of student computer usage.

- SETDA – The State Educational Technology Directors Association serves as a data source for its members as well as for the federal ED. A taskforce is working on a state-initiated effort to develop a common set of data elements (CDE) that ask the right questions and have standardized definitions for each element to gain a better understanding of technology availability and usage in schools. CDE initiatives include 1) a sample single-point-of-contact questionnaires for state, district, and school use and which can be accessed from the SETDA website at http://www.setda.org - click on the NLI Toolkit link; 2). A suite of onsite observation and interview forms which are undergoing extensive review and validation; and 3) the development of a brief state-level survey that ED can use for Title IID program review.

- ESTEP – ED plans to provide technical assistance to states to help design, conduct, and procure high-quality evaluations of educational technology by awarding up to nine research grants this fall. The goals of this competitive grant competition are to develop a plan to conduct a rigorous, scientific based evaluation of an educational intervention that uses technology applications as a tool to increase student achievement in one or more core academic subjects; conduct the evaluation in a manner that tests the impact of the intervention, as well as tests, refines the empirical methods, practices, and instruments used to assess the impact of the intervention on student achievement; and, document and disseminate information about the evaluation plan, its implementation and the results to other States and to school districts so they may learn from and replicate the approach.

NOTE: The Department submitted an application in partnership with MOREnet and OSEDA to conduct a comprehensive longitudinal eMINTS assessment review. The CLEAR project, using a quasi-experimental design, would expand upon existing eMINTS program evaluation efforts to investigate the longitudinal impacts of eMINTS enrollment on student performance, teacher development, and the effectiveness of eMINTS professional development. New tools and instruments would also be developed and validated that measure changes in teacher development and the impact of professional development.

Census of Technology:
2003 – We had hoped to have all the data entered by the end of July and are on track except for one district.

2004 – In July, Department staff met with Core Data and Information Technology staff to discuss revisions and changes to the 2004 Census. Changes are being made in response to new NCLB demands, and to better align with the state technology plan, the National Education Technology Plan (NETP) that is under current development, and work completed by the Common Data Elements task force (see details above). Samples of the new district and school census forms are available for review (in Word format). Please email instrtech@mail.dese.state.mo.us to let us know if you would like to participate in this activity.

E-rate Program
Funding Year 2003 – Wave 8 for E-rate funding for funding year 2003 (July 1, 2003-June 30, 2004) was issued on Monday July 28, 2003. In this wave, the SLD committed over $38.4 million in 418 letters to school and library applicants. The funding associated with this wave included funding for priority 1 (telecommunications and Internet access) services only. Funding for priority 2 (internal connections) will be delayed until the ability to fund internal connections becomes clear. (Note that the SLD has already determined there are not enough funds to fulfill internal connections requests below the 70-percent discount level.) To date, the SLD has committed over $746.2 million in 26,000 letters for funding year 2003. Additional waves will be issued every other week until the process is complete.

E-rate Report: Program is Essential to Schools
"E-rate: A Vision of Opportunity and Innovation," a new report from the Education and Library Networks Coalition (EdLINC), documents how the E-rate has helped transform American schools and libraries into 21st century institutions. But it also underlines how essential E-rate discount are in providing much needed support in face of today's tough economy. The report is based on survey responses from more than 800 E-rate recipients, supplemented by 90 in-depth interviews that form the basis for the 39 community success profilers featured in the report. The report can be downloaded in PDF format at http://www.edlinc.org/pdf/ErateReport070803.pdf

Upcoming Workshops – MOREnet plans to offer regional E-rate training sessions intended for those new to the program or needing a refresher course. Sessions will provide an overview of the program, discuss eligible services, and go over the application process and required forms. They will be conducted in Independence, Macon, Springfield, Poplar Bluff, Camdenton, Maryville and St. Peters.

Any district, school, or library in the state can send representatives to these sessions – whether or not it is a part of the K-12 TNP or REAL programs. To register, please e-mail training@more.net or call (800) 509-6673 and ask for Sandra Monnig. If emailing, be sure to include your name, daytime phone number, e-mail address, organization and location and date of training that you wish to attend with your registration request. For additional information, please feel free to visit the training session website at http://www.more.net/services/e-rate/training2003.html or contact Jeanne Sullivan or Tony Wening at 1.800.509.6673 or erate@more.net.

Ed Tech News and Resources
eMINTS Research Evaluation Reports
The eMINTS program recently posted three research evaluation reports based on an expansion school pilot that was conducted in 2000-2001 and 2001-2002. The expansion project was designed to identify successful strategies for extending the impact of eMINTS instructional resources beyond the third and fourth grades. Specifically, these reports address instructional practices and effective behavior management in eMINTS expansion classrooms, assessing instructional practices in eMINTS classrooms, and educational communities. The reports are available on the eMINTS website at http://emints.more.net/evaluation/reports/.

Free Online Assessment Tool -- Build a strategic profile of your school's strengths and needs.
The CEO Forum's Interactive School Technology and Readiness (STaR) Chart is a self-assessment tool designed to provide schools with the information they need to better integrate technology into their educational process. Complete an online, multiple-choice questionnaire and you will be provided with instant feedback on how well your school is doing in this process. The STaR Chart identifies and defines four school profiles ranging from the "Early Tech" school with little or no technology to the "Target Tech" school that provides a model for the integration and innovative use of education technology. The STaR Chart is not intended to be a measure of any particular school's technology and readiness, but rather to serve as a benchmark against which every school can assess and track its own progress.
See: http://www.iste.org/starchart/index.cfm

EPA Program Offers Free Assistance That Can Save School Districts $10-50 Per PC Annually
Texas school districts are saving over $1.6 million this year simply by activating computer monitor "sleep" features -- standard in Windows 95, 98, ME, 2000, and XP. Almost any organization can save $10-50 per PC annually in electricity and help protect the environment simply by activating these features. Monitor sleep settings save energy by allowing computer monitors to go into a low-power "sleep" mode when inactive. A simple touch of the mouse or keyboard "wakes" the monitor within seconds. Activating sleep features costs organizations almost nothing, and the associated savings are substantial: state and local governments are saving hundreds of thousands of dollars annually as the direct result of only a few hours of IT staff time. For more information about the Energy Star monitor power management campaign, or for help activating sleep settings on your computers, visit http://www.energystar.gov/powermanagement or contact Mike Walker at (617) 720-0974

Schools Urged to Teach 21st Century Skills
A new organization called the Partnership for 21st Century Skills has issued a report and a free planning guide to help educators incorporate specific "21st-century" skills—such as problem solving, critical thinking, and communication—into the core curriculum of schools to better prepare students for today's technology-infused workplaces. The report, "Learning for the 21st Century," and its companion, "Milestones for Improving Learning and Education (MILE) Guide for 21st Century Skills," were released June 30 at the National Education Computing Conference in Seattle. A survey released June 25 by the AOL Time Warner Foundation underscores the need for schools to incorporate the teaching of these new skills. See July 10, 2003 eSchool News Online article: http://www.eschoolnews.com/news/showStoryalert.cfm?ArticleID=4506.

► Partnership for 21st Century Skills is a public-private organization whose members include the AOL Time Warner Foundation, Apple Computer, Cable in the Classroom, Cisco Systems, Dell, Microsoft, the National Education Association, and SAP. Its efforts are supported by the U.S. Department of Education. The Partnership advocates a model of learning that builds upon the current emphasis on core subjects and assessment to create a modern context that will enable students to be successful in the new millennium. The free report, "Learning in the 21st Century", and companion, "Milestones for Improving Learning and Education Guide for 21st Century Skills" (MILE), help communities develop a framework for moving forward. Both were developed through a comprehensive process involving hundreds of educators, researchers and employers across the country. See: http://www.21stcenturyskills.org.

► AOL Time Warner Survey results suggest Americans strongly support programs that prepare students to be technologically literate in addition to helping them achieving in reading, writing, and math. The national survey of 1,000 adults, conducted by the AOL Time Warner Foundation, found that ninety-two percent of respondents think that young people need different skills today than they did 10-20 years ago. The Foundation will make $3 million in new grants this year, including $1 million in initial grants announced today and additional $2 million to other 21st Century Literacy efforts later in 2003. The Foundation said the survey supports the work of the U.S. Department of Education's Partnership for 21st Century Skills Initiative, working to help schools incorporate the teaching of these new literacy skills into their curriculum.
See: http://aoltimewarnerfoundation.org/.

Enhancing Your Curriculum with Web-enabled Resources
The Internet is a treasure trove of deep, rich instructional resources. It's also a cesspool of inappropriate material and a mountain of undifferentiated content. Before the awesome educational potential of the web can do your teachers and students much good, somebody has to toss out the trash. Somebody has to sift through what remains for those nuggets of content. Somebody has to organize the web's vast wealth into a system that is easy to retrieve, certified for instructional merit, and presented in ways most likely to advance learning. Surprise: Somebody has been hard at work to do all that. Check out the FREE resources in the brand-new eSN Resource Center on Enhancing Your Curriculum with Web-enabled Resources. Visit: http://www.eschoolnews.com/resources/reports/enhancingcurriculum/

► The Smithsonian Center for Education and Museum Studies has created a free educational web site for students, educators, and families based on the Smithsonian Institution's content. The educator section offers lesson plans, virtual field trip information, professional development and more, all sorted by grade level and subject area. The student area features interactive content modules, called IdeaLabs, on topics such as United States presidents or walking on the moon. Source: eSchool News Online, July 29, 2003.
http://www.smithsonianeducation.org/educators/index.html.

► SCR*TEC's TALON database of Internet sites support the goal of integrating technology into the K-12 classroom. The annotated resources may be viewed by topic or searched by keyword.
http://www.southcentralrtec.org/talon/.

New Digest Of Education Statistics

A new Digest of Education Statistics was released in July by the National Center for Education Statistics. The 2002 edition contains information on a variety of subjects in the field of education statistics, including the number of schools and colleges; teachers; enrollments; graduates; educational attainment; finances; federal funds for education; employment and income of graduates; libraries; technology; and international comparisons. See: http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2003060.

Interview Compares Online Versus Traditional School Settings

In an interview with Julie Young, director of the Florida Virtual School, Ms. Young compares traditional instruction with instruction online. Online courses, Young notes, are a good forum for one-on-one communications between the student and teacher. Because questions can be asked in private, kids say they feel more comfortable asking them. But, online education can take many different shapes, from a student-centered, highly engaging interactive model that takes advantage of a wide range of new technologies, to watching a video. This Converge Online feature story of the interview touches on some of the most common questions surrounding online education and gives a peak at a leading virtual school's answer to them. The Florida Virtual School based in Orlando, Fla., enrolls in-state students free of charge, and on a tuition basis for out-of-state students and kids from as far away as Brazil and Shanghai. See http://www.centerdigitaled.com/converge/index.php.

Challenges In Creating Virtual School Programs

A recent eSchool News article features the set of issues relating to virtual schools that many states are currently addressing. Editors find that state courts and legislative actions across the nation are producing mixed results for virtual education. Critics are saying that chartered virtual schools can siphon tax dollars away from public schools and into the hands of for-profit companies. According to one report, at least 14 states have a state-sanctioned, state-level virtual school either planned or in place. The states are Alabama, Arkansas, Florida, Hawaii, Idaho, Illinois, Kentucky, Louisiana, Maryland, Michigan, New Mexico, North Dakota, Utah, and West Virginia. Debates over starting virtual schools exist in many other states. In Texas, legislators struck down a bill that would have approved the implementation of virtual charter schools. Under the bill, every student enrolled in a charter cyber school would have been entitled to an Internet-connected computer and a printer. In Georgia, the state senate voted to establish virtual charter schools, but the legislation was tabled in the House. In Pennsylvania, lawmakers agreed to the first cyber charter school since a revision to the state's charter school law empowered officials to approve or reject cyber school charters on a more stringent basis than their traditional school counterparts. Eight online schools currently operate in Pennsylvania. According to those who have examined the cost of virtual school programs, too often state legislators think that virtual school programs offer a quick and cheap solution strategy. The reverse seems to be true. The report concludes: (1) Not all virtual schools are the same; (2) Not all education is done online; (3) Students do not need to be advanced computer users; and (4) Virtual education is not easier. See: http://www.eschoolnews.org/news/showStory.cfm?ArticleID=4492

CoSN Compendium

Couldn't make it to NECC? The new CoSN Compendium addresses many of the issues that were discussed at NECC, including leadership and policy concerns. The first volume is available now and offers educational technology perspectives – both policy and practical – on scientifically based research, accountability and assessment, and safeguarding cyberage students. CoSN members have free online access to the Compendium; others can read a sample monograph on wireless computing at http://cosn.org/initiatives/compendium/3.pdf. Print copies of the entire eight monographs can be purchased for $39.00 (Members) and $59.00 (Non-Members). Individual printed monographs can be purchased for $7.00 and $10.00 respectively. See: http://209.190.169.202/store/compendium.html.

Quick Facts or Did You Know?
Budget Risks Lead to Delays for Technology
Education Week Volume XXII, Number 34 May 7, 2003

Despite bad budgets, schools express hope that they can hold their systems together and that technical support and maintenance will rebound in a year or two. Among strategies and stopgap measures they are using to keep technology programs running are
- partnering with businesses that will help them pay of some upgrades and replacements,
- leasing computers and purchasing extended warranties, and
- using students and staff to do simple computer maintenance.

Schools shift spending to wireless, handhelds, notebooks
eSchool News online July 1, 2003
Anticipating smaller budgets, school officials are spending their technology dollars more carefully, according to International Data Corp. (IDC) research report. While desktop computers remain the most significant hardware expenditure, school officials are spending more than they have in the past on notebook computers, handheld devices, and wireless networking. A K-12 district survey found that:
- 64% plan to delay hardware purchases
- 49% plan to delay spending on services
- 37% have put a freeze on hiring technology support personnel
- 13% plan to reduce Instructional Technology staff

The Technology-Rich Classroom
EducationProjectors.com newsletter July 11, 2003
A study of middle school teachers using the Ameritech Electronic University School Class tried to determine: What hardware and software should be provided in a classroom…as to maximize student learning? Classrooms were equipped with 12 networked computers with Internet access, scanner, printer, four videoconferencing cameras connected to computers, five digital still-frame cameras, two camcorders, and a videocassette recorder. A "teacher station" included a computer, VCR, and a video document camera, all of which are connected to the video projector. Teacher surveys and interviews indicated:
- teachers ranked highest the access to the computers, printers, and digital cameras, followed by a document camera, video/Computer projector, CD player, and VCR.
- teachers didn't feel the need for more computers as they liked the way students worked together in pairs or triads, noting that 12 computers seemed a sufficient number for classes of about 25 students

◆ **Teacher-Driven Technology: 2003 Missouri Educational Technology Conference, October 19-21, 2003**
 -- *Submitted by Eric Nicklas, Program Manager, K-12 Technology Network Program, MOREnet*
http://www.more.net/services/conferences/fall2003/

- Register online Aug. 25–Oct. 3, 2003 (complete schedules, session descriptions and registration information are available on the conference website).

- Cost and Confirmation Information
     Preconference registration: $75
     Regular registration: $225

     Payment must be received within five working days of the submission date of your online registration or the registration will be cancelled.

     Registrants will receive e-mail confirmation of registration after payment to MOREnet is received.

     Types of payment accepted: Purchase Order or Credit Card (Visa, MasterCard and Discover) only.

     Cancellation Policy: Participants who cancel after online registration closes

(October 3, 2003) will receive a refund equal to 80% of the
registration fee if the participant notifies MOREnet within one month of the end
of the conference

- Exhibitors – Changes for 2004
  Welcome reception and visit the exhibitors on Sunday afternoon/evening from 4–
  7 p.m. Exhibitors will be located in the Windgate Room in the Main Lodge.

  Monday evening reception/hors d'oeuvres in exhibitor area offers opportunities
  for networking with colleagues and vendors.

  More than 100 booths are expected for this year's conference.

- Featured keynote speaker: Bernajean Porter (Note new time)
  Ms. Porter will speak on Monday, Oct. 20 at 11 a.m. in the Grand Ballroom.
  For information about Bernajean Porter go to
  http://www.edtechplanners.com/about.html

- Lodging
  Sleeping rooms at Tan-Tar-A are $82/night. Reservations must be made on or
  before Friday, Oct. 3, 2003. Contact Tan-Tar-A at (800) 826-8272. Callers must
  inform Tan-Tar-A that they want the 2003 Missouri Educational Technology
  conference rate. For more information about Tan-Tar-A see http://www.tan-tar-
  a.com .

- For complete, up-to-date information, see MOREnet's website
  http://www.more.net/services/conferences/fall2003/. For more information, or to request
  auxiliary aids or services, contact MOREnet Conferences & Events at
  conferences@more.net or call (573) 882-0289. TTY users call via RELAY Missouri (800)
  735-2966.

◆ 2003 E-rate Training Sessions Scheduled

MOREnet is providing training sessions on the E-rate program. These sessions are intended as
an introduction to the program. During this training, you will receive an overview of the program,
including eligible services, the application process and the forms required by the program. Form
471 will be covered in depth to provide you the knowledge you need to complete your application
this fall.

Training sessions will be conducted in Independence, Macon, Springfield, Poplar Bluff,
Camdenton, Maryville and St. Peters. Additional information on dates and locations, including
directions, is available at http://www.more.net/services/e-rate/training2003.html .

Any staff are encouraged to attend. Staff from Missouri public schools and libraries do not have to
be a part of the K-12 TNP or REAL programs to attend.

Training Registration: To register for an E-rate Regional training session, please e-mail
training@more.net or call (800) 509-6673 and ask for Sandra Monnig. Please include your
name, daytime phone number, e-mail address, organization, location and date of training that you
wish to attend with your registration request.

For any other questions regarding this announcement, the training sessions or information on
facilities or directions, please contact Jeanne Sullivan or Tony Wening at (800) 509-6673 or
erate@more.net.

◆ I-TV Workshop

In conjunction with the Missouri Distance Learning Association, GreaterNET is hosting and conducting a three-day workshop designed for teachers, technology coordinators, I-TV facilitators and administrators interested in learning about teaching via two-way interactive television (I-TV).

The workshop will start at 1:00 pm on August 4th on the campus of State Fair community College in Sedalia. By 12:00 pm on August 6th attendees will have experienced:

- involvement in an electronic field trip
- discussion/demonstration of the differences/advantages and disadvantages of the various distance learning technologies available
- instruction and hands on time in the operation of I-TV classroom equipment (Polycon codec, document cameras, peripherals)
- instructional strategies for interactivity and classroom management in distance learning classrooms

Attendance is limited to the first 30 persons who register. Cost for the 15-hour workshop is $100 per person. Registrants should email their name, school district and address contact information and method of payment to GreaterNET Executive Director Judy Stainback at jstainback@mchsi.com . Invoices can be generated only upon submission of a district approved purchase order number. Additional logistics information and a workshop syllabus will be mailed to those who register.

A limited number of hotel rooms are on hold at the Best Western State Fair Motor Inn, 32nd and South Hwy 65. Contact the hotel at 660-826-6100 and identify yourself as an attendee of the GreaterNET I-TV workshop and ask for the "corporate rate" (which will be approximately $50-$60 plus tax). With the Missouri State Fair beginning the same week, hotel rooms are scarce; so don't delay in making your reservation.

◆ New Distance Learning Web Site Is Up and Running

Lewis and Clark Then and Now is happy and proud to announce the arrival of its Apple Learning Interchange website, [http://www.ali.apple.com/lewisandclark] www.ali.apple.com/lewisandclark . This website will serve as the home page for all of our distance learning broadcasts. In addition to the broadcasts themselves, you'll find web resources, and learning activities related to each topic and a video setup page to help answer your technical questions. If you've got the Discovery Expedition website, [http://www.lewisandclark.net] http://www.lewisandclark.net/ bookmarked on your computer, don't worry; that site will continue to link you to all distance learning information as well.

Currently on the site you'll find archived versions of our two spring conferences. The first, Arming the Expedition at Harpers Ferry, focused on Lewis' preparation for the journey as he procured supplies, weapons and the experimental iron boat at Harpers Ferry. Held April 16 the broadcast linked students across the country to National Park Service experts in Harpers Ferry, WV as well as members of the Discovery Expedition of St. Charles and Lewis and Clark Honor Guard of Montana.

On May 16 our second broadcast entitled Joining Cultures for a Successful Journey gave students the chance to learn more about the cultural diversity of the expeditions' crew as well as the land the crew would explore. Experts included Carolyn Gilman, curator of the Missouri Historical Society's National Lewis and Clark Bicentennial Exhibit, Gerard Baker, Superintendent of the National Historic Trail, and Amy Mossett of the Circle of Tribal Advisors.

To view and download broadcasts you will need QuickTime 6 software that is available for free download. To get the software and learn more about how to ensure smooth connections while you view, simply click on the "video setup" page included with each broadcast.

Be on the lookout in the near future for an e-mail update describing the virtual field trips planned for the upcoming fall semester. Topics will be diverse, and there will be lots of opportunities for student and teacher interaction from schools across the country. Check the website frequently; we will be updating it regularly as new broadcasts are announced and adding additional features as the school year begins.

If you have friends and colleagues who would like to be placed on the Lewis and Clark Then and Now e-mail list, please tell them to contact us at [mailto:lewisandclark@clayton.k12.mo.us] lewisandclark@clayton.k12.mo.us.

Tim Gore, Jim Sturm, Scott Mandrell
Lewis and Clark Then and Now

www.ali.apple.com/lewisandclark
www.lewisandclark.net
lewisandclark@clayton.k12.mo.us

Lewis and Clark Then and Now is co-sponsored by the School District of Clayton, Missouri and the Discovery Expedition of St. Charles. Financial support is provided by a grant from the National Park Service Challenge Cost Share Program.

Additional national collaborators include: Missouri Historical Society, Cooperating School Districts of St. Louis, MOREnet, American Distance Education Consortium, The Ohio State University, Ohio Academic Resources Network, Polycom, KarlNet, Transportable Internet, Inc., Tachyon, Power Technologies, Inc., Internet2, Peter Kiewet Institute, Kathryn M. Buder Center for American Indian Studies, United States Army National Guard Bureau, and the Greater St. Charles Convention and Visitors Bureau.

◆ MoDLA News
--Submitted by Ruth Litman-Block, MoDLA President

As the new President of MoDLA, I am pleased to report that the Third Annual MoDLA Conference held at the Westport Sheraton Lakeside Chalet in St. Louis, Missouri July18th-19th, 2003 was a great success thanks to all of our vendors, sponsors, presenters and attendees. We needed to have 120 attendees to make our budget and we ended up with 125. Congratulations to all of you who helped spread the word. **IF** everyone pays their invoices, we should have a profit of $22,000.

The evaluations were very positive. Attendees said they liked the facilities and they walked away enriched by the learning experience of the conference. We had very generous sponsorship from Polycom, Tandberg, SBC, Vtel, Blackboard, Cisco and Cytek. We had 29 exhibitor booths and everyone had access to high speed Internet. There were live demonstrations and videoconferences going on all day Friday. We connected to the Museum of TV and Radio, The National Archives and Records Administration, Jan Sunday at SBC presented on Telemedicine; Enhancing the Ability to Serve, the Mote Marine did Demos for educators on programs they present, and Mike Fuller from St. Louis Community College presented information on dual enrollment class offerings.

On another note, I am pleased to announce the new Officers and Board Members for the 2003-2004 year. First of all Michelle Norgrin is our new Executive Director. She comes to us from Southwest Missouri State where she was the Assistant Director of the Center for Scientific

Research and Education. We are excited to have her and all her expertise. I look forward to working with her this year to expand the influence of MoDLA statewide.

The Executive Committee:
Ruth Litman-Block, President
Claranne Vogel, past President
Diana Garland, Vice-President
Mary Reinert, Secretary
Sally Burnett, Treasurer

Board Members Are:
Nancy Steele...........................Term Expires 2006
Putnam Co. R-1 School District

Eric Nicklas.............................Tem Expires 2006
MOREnet

Continuing Board Members are:
Keith Crumley........................term expires 2004
Coordinator, Missouri National Guard-Ike Skelton TCRC

Mike Jeffries...........................term expires 2004
Distance Learning Specialist, Central Missouri State University

Deb Sutton.............................term expires 2004
Director, Instructional Technology, Department of Elementary and Secondary Education (DESE)

Dan Bain................................term expires 2005
Director, Office of Telelearning Services, St. Louis Community College

Nancy Gibler...............................term expires 2005
Director, Business Development, Central Electric Power Coop

Frank Veeman, Ph.D................................term expires 2005
Interim Dean, College of Arts and Sciences, Northwest Missouri State University

◆ GreaterNET Begins Second Full Year of Operation

--Submitted by Vicki Hobbs, Telecommunications Policy Analyst, Rural School and Community Trust

GreaterNET completed its first full year of operation with fourteen districts participating via I-TV in a total of 26 classes matched or brokered through GreaterNET services. More than 340 students had an opportunity to take a course that would not otherwise have been available. Requests were predominantly for foreign language, i.e., Spanish I and II; other classes included Photography and Physics.

In March 2003, the first GreaterNET Board of Directors was elected and a new Executive Director was appointed. The board consists of Karen Hemme (Concordia R-II), John Rain (Winona R-III), Andy Henley (Chilhowee R-IV), Rita Gulstad (Central Methodist College), Deb Sutton (DESE), in addition to initial officers—Judy Stainack (President), Sally Burnett (Vice-President and Secretary), and Vicki Hobbs (Treasurer). Board members Judy Stainback and Sally Burnett also serve in staffing roles as executive Director and Director of Programming and Development, respectively. An Advisory Committee consisting of twelve other educators from around the state complete the GreaterNET organizational structure.

GreaterNET hosted a coffee break at the Missouri Distance Learning Association Conference in St. Louis on July 17-18, as well as sponsoring a booth. Also, in conjunction with MoDLA, GreaterNET will again be providing a workshop for I-TV teachers, technology coordinators, I-TV facilitators, and administrators on August 4-6 at State Fair Community College in Sedalia. (See Newsline article for details.)

If your district is in need of classes for the fall and have I-TV capabilities, contact Judy Stainback at 417-882-2509 or jstainba@mchsi.com for additional information. If you currently have I-TV classes, you can share with other schools by contacting GreaterNET. Districts that share are compensated by GreaterNET!

◆ Missouri ERZ Initiative Update
--Submitted by Vicki Hobbs, Telecommunications Policy Analyst, Rural School and Community Trust

Despite an inability to attract sufficient external funding for all planned efforts, several Rural School and Community Trust partners are moving ahead with significant initiatives:

The Rural Advocate Program (RAP), housed within the Northwest Regional Professional Development Center at Northwest Missouri State University in Maryville, has begun to serve the needs of ten small rural pilot districts in extreme northwest Missouri. RAP staff have begun to identify priority needs among cooperating districts and an evaluation plan is in place to help with plans for replicability. The Rural Advocate Program, a new concept in support of small rural schools, provides staffing support in technology planning and implementation, E-rate filing, grant access and management, test analysis/interpretation, professional development and other needs as identified by the client districts.

Linn State Technical College has recently enrolled its second cohort of six students in its School Technologist Program, which trains individuals interested in becoming school technology coordinators. In the eighteen month program, students are trained not only in the technical aspects of computer networking and distance learning, but also, through its partnership with Central Methodist College in the pedagogical aspects related to integration of technology in the school setting. Intensive on-site summer courses at Linn Tech are supplemented with Distance Learning courses during the school year while students are located at internship sites with school districts around the state.

Intensive professional development seminars and workshops are being provided to rural teachers in the Bootheel and Ozark Education Renewal Zones through Southeast Missouri State University (SEMO), responding to the needs of rural districts, has begun to "take professional development to them," rather than requiring that teachers travel to Cape Girardeau. Pending funding availability, SEMO continues to explore the formation of an alternative professional development school model in the Bootheel.

In addition to developing and supporting four distance learning courses in conjunction with the School Technologist Program, Central Methodist College in Fayette is soliciting input on the development of alternative, Special Education, and expanded Middle/Secondary certification programs through its three school advisory committees in central, east central, and south central Missouri. Through its satellite campuses located at East Central College in Union and at Mineral Area College in Park Hills, CMC is attempting to provide greater access—and a more facilitative environment—for those interested in becoming rural teachers.

GreaterNET will begin its second full year this fall providing brokered or matched I-TV classes to small Missouri districts in high-demand, critical shortage areas.

◆ Safety Net: Addressing the New Threat to Youth

--Submitted by Alyssa Bodeux, Safety Net Project Coordinator, Children's Advocacy Services of Greater St. Louis
safetynetcoordinator@yahoo.com

The Internet holds tremendous potential for our nation's youth. Nearly 45 million youth ages 10 through 17 were online regularly in 2002. By 2005, that figure is estimated to increase to approximately 77 million kids. But the Internet holds perils for youth as well. The Internet has a seamier side that young people encounter with great frequency. Large numbers of young people are encountering sexual solicitation they did not want and sexual material they did not seek. In a few extreme cases, youth are lured to meet with someone they corresponded with on-line, only to end up the victims of sexual abuse or other violence. A landmark study, *Online Victimization: A Report on the Nation's Youth,* suggested that somewhere between 4.5 and 6 million youth nationally have had some experience with on-line victimization.

The problem of Internet victimization is unique in that most youth, by the age of 10, are more sophisticated about their knowledge of Internet tools than their parents and teachers. Because of this generation gap, parents feel helpless in their ability to have an impact on the problem. Many parents do not realize the dangers their children are facing and do not understand simple steps they can take to address the risks. Teenagers who use e-mail and Instant Messaging services on a daily basis feel immune to any harm, which makes the parent's task that much more urgent.

The Safety Net workshop will provide participants with a model of a comprehensive, collaborative primary prevention program that addresses the issue at several different levels. Safety Net is a primary prevention program coordinated by Children's Advocacy Services of Greater St. Louis (CASGSL) and funded by the Children's Trust Fund of Missouri. Safety Net utilizes educational workshops for parents and teachers, prevention material for teens developed by a Youth Advisory Group, and a link with the St. Louis Crimes Against Children Task Force to strengthen the message and provide law enforcement resources if necessary.

The Safety Net presentation is offered at no cost with the intent to educate teachers and parents on issues regarding child safety on the Internet. Topics such as filtering/monitoring software, Instant Messaging, and Internet predators are discussed. The presentation is approximately 60 minutes including a 10 minute Question and Answer session.

This workshop is unique in that it addresses an emerging and still little understood issue, Internet sexual abuse. Also, Safety Net crosses disciplines by using a variety of resources including a family services agency, law enforcement task force and child advocacy center. The use of a teen Youth Advisory Board ensures that the project remains grounded in the culture of the population it addresses.

For more information or to request a FREE Safety Net workshop in your school, please contact:
Alyssa Bodeux, Safety Net Project Coordinator,
Children's Advocacy Services of Greater St. Louis, 8001 Natural Bridge Road, St. Louis, MO 63121 safetynetcoordinator@yahoo.com
(314) 516-7332

◆ Missouri Schools and Programs in the News

eMINTS
eThemes was chosen for inclusion in SBC's Blue Web'n during the month of May, 2003. Congratulations to Renee Martin-Kratzer and her resource scouts: Sarah McDonald, Clara Liao, and Chia-Chi Yang! Each week, SBC sends out an update to almost 35,000 educators world-wide informing them of the latest additions to Blue Web'n. It is an online library of 1700+ outstanding Internet sites categorized by subject, grade level, and format lessons, activities, projects, resources, references, & tools). You can search by grade level, broad subject area, or

specific sub-categories including Dewey Decimal Numbers. Each week 4 or 5 new sites are added. eThemes will be allowed to display the Blue Web'n logo on their website.

◆ Copyright Question of the Month

Q. May an educator (e.g. administrator, classroom teacher, substitute teacher, or student teacher), other district employee, volunteer, or others present a student's multimedia project that includes copyrighted material to a state, national, or local workshop and/or conference?

No. The educator may not perform, display, or present a student's multimedia project. The student's project does not belong to the instructor.

Note: Only the students may perform and display their own multimedia educational projects for educational projects for educational uses in the course for which they were created. After that time, students may retain the projects in their personal portfolios as an example of their academic work for later personal uses such as job and graduate school interviews.

◆ Mark Your Calendar

August 1	Newsline published
14	MO Rural Opportunities Council Telecommunications/Education Committee Meeting (1:15-3:30 pm)
	Governor Office Building, Room 316, Jefferson City, MO
25	Newsline articles due
	First Payment for eMINTS and Safe Schools Grants
September1	Labor Day
	Newsline published
11	MO Rural Opportunities Council Telecommunications/Education Committee Meeting (1:15-3:30 pm)
	Governor Office Building, Room 316, Jefferson City, MO
25	Newsline articles due

◆ Upcoming 2003-2004 Conferences

August 3-5	Cooperative Conference for School Administrators Missouri Department of Elementary and Secondary Education Tan-Tar-A, Osage Beach, MO
August 13-15	19th Annual Conference on Distance Teaching and Learning Madison, Wisconsin www.uwex.edu/disted/conference
September 15-16	Second Annual Federal Programs Conference Department of Elementary and Secondary Education Holiday Inn Executive Center, Columbia, MO www.dese.state.mo.us/divimprove/fedprog
September 30	Tech Forum Technology and Learning Roosevelt Hotel, New York City www.techlearning.com/events/techforum
October 10-11	Connected Classroom Conference-Making the Connection: Curriculum,

Technology and Achievement
Seattle, Washington
mmadera@classroom.com

October 12-13   25th Annual Rural & Small Schools Conference
Manhattan Holiday Inn Holidome, Manhattan, Kansas
barbhav@ksu.edu

October 16-18   ASCD Conference on Teaching and Learning (2003)
Philadelphia Marriott, Philadelphia, Pennsylvania
acunning@ascd.org

October 19-21   Missouri Educational Technology Conference 2003: Teacher-Driven
Technology
Missouri Department of Elementary & Secondary Education
Missouri Research and Education Network
Tan-Tar-A, Osage Beach, MO
http://www.more.net/services/conferences/fall2003/

November 18-19   Connected Classroom Conference-Making the Connection: Curriculum,
Technology and Achievement
Chicago, Illinois
mmadera@classroom.com

December 2-3   Missouri Network Security Symposium
Linn State Technical College and Missouri Research and Education
Network
MOREnet, Columbia, MO
http://www.more.net/services/conferences

January 26-28   Midwest Education and Teaching Conference
Cooperating School Districts
Sheraton Westport Hotel, St. Louis, MO

January 29-31   Twenty-Second Annual International Conference-Technology, Reading &
Learning Difficulties (TRLD) 2004
Grand Hyatt San Francisco on Union Square, San Francisco, California
frost@trld.com

February 19-21   Interface A-Grades K-6
Department of Elementary and Secondary Education
Tan-Tar-A, Osage Beach, MO

February 22-24   Interface B-Grades 7-12
Department of Elementary and Secondary Education
Tan-Tar-A, Osage Beach, MO

July 15-16   Missouri Distance Learning Conference (MoDLA)
Site to be determined

◆ From the Mailbag

Grant Resources
www.eschoolnews.com/erc/funding/SampleFundingnewsLetter.cfm
eSchool News offers an email newsletter "Grants and Funding Alert." With each issue, you can
keep up with all the new school grants (from federal government, national organizations,

corporate foundations and more), zero-in on the right grant opportunities, and meet the deadlines. A charter subscription to "Grants and Funding ALERT" cost $35 a year.

From the Annenberg/CPB Channel Schedule
More Summer Professional Development
The Annenberg/CPB Channel continues to offer more free workshops or courses for teachers in "institute" format during August. This means episodes of the workshops and courses are broadcast at the same time daily, Monday through Thursday, for two weeks. Beginning August 4 and continuing through August 14 are LOOKING AT LEARNINGŠ AGAIN, PART 2 for K-12 educators, and CONVERSATIONS IN LITERATURE for high school language arts teachers. Also beginning August 4 and continuing through August 19 is LEARNING MATH: PATTERNS, FUNCTIONS, AND ALGEBRA for K-8 teachers.

Register now for each of these offerings and receive the free support materials. Certificates of participation, at no cost, and optional graduate credit, at a reasonable cost, are available as well. Register online at http://www.learner.org/channel/workshops/register_info.html
Call us for further details or assistance at 1-800-LEARNER, or email us at Channel@learner.org.

26 Offerings This Fall
The Channel is offering 26 professional development workshops and courses in content and pedagogy this fall. Workshops in all disciplines K-12 provide the option of two graduate credits from Colorado State University at $75 a credit. Courses in math and educational theory offer three graduate credits, also at $75 a credit. For the complete broadcast schedule, go to http://www.learner.org/about/news/news_profdev.html

Register now for these workshops and courses in a variety of disciplines and grade levels at http://www.learner.org/channel/workshops/register_info.html
Search for selections by discipline and/or grade level at http://www.learner.org/channel/channel.html

New This Fall
The Channel is rolling out seven new professional development workshops and courses, in content and pedagogy, this fall. Watch for workshops in reading K-2, arts and social studies, both for teachers of K-5, and literature and civics for high school teachers. New courses are in K-8 math and K-12 educational theory.

Registration is now open for these and 19 other workshops and courses in a variety of disciplines and grade levels. Search for selections by discipline and/or grade level at http://www.learner.org/channel/channel.html Register online at http://www.learner.org/channel/workshops/register_info.html

From Blue Web'n Update.
SBC's Blue Web'n Library located at http://www.knsbc.com/wired/bluewebn/
Teacher's Tools (Agilent Technologies)
http://www.educatorscorner.com/index.cgi?CONTENT_ID=6&SESSION_ID=1058618629-67601
Consists of resources for use in your science classroom or lab -- slide presentations, reference materials and external website links.
Sections include: Lecture Materials (Slide Presentations, Interactive Experiments, Java Animations, Application Notes, Cartoons);
Lab Resources (Experiments, Project Ideas, Computer Based Training);
References (e-Newsletter, Engineering Reference Tables, Journal Articles, Lightwave Tools). Not a whole lot of content; but hopefully growing!
Grade Level: High School
Content Area: Science (General/Other) [Dewey #500]
Application type: Other Resources

Degas and the Dance (Philadelphia Museum of Art)

http://www.philamuseum.org/exhibitions/exhibits/degas/flash/home2.html
Organized thematically, the exhibition gives compelling insights into the life and work of ballerinas while also tracing Degas' development over five decades as "the painter of dancers." The gallery includes a clickable map and reproductions. Degas for Kids consists of very simple interactive activities that explain what's going on in the paintings. Requires Flash.
Grade Level: Early Childhood (K-2), Elementary, Middle School, High School, College, Adult/Professional
Content Area: Arts (Visual Arts) [Dewey #750]
Application type: Other Resources

Preschoollearners.Com
http://www.preschoollearners.com/
Cute, colorful, and immediately - this site consists of hundreds (over 600) of practical worksheets arranged by subject and age group. Broad topics include: early English, early Math, Things We Do, Things Around Us, Things We Do, and more. From Sutra Computers Pvt Ltd., India.
Grade Level: Early Childhood (K-2), Elementary
Content Area: Community Interest (Parenting/Families), Education (Curriculum) [Dewey #375]
Application type: Other Resources

Technology Skills for After-Schoolers
kidzonline.org
Kids participating in Arnold's All-Stars, a leading California after-school program, are learning about technology using an innovative "kidz teaching kids" approach" developed by Nortel Networks Kidz Online. Kidz Online offers videos and lessons plans aimed to engage students, grades 6-12, in actively learning technology. Source: Nortel Networks Kidz Online

Teaching Students How to do Online Research
techlearning.com/story/showArticle.jhtml?articleID=10810510
Students are never too young to learn how to do research and cite documents. Learn the six steps to online research that will help.

Think.com
 http://www.think.com
Think.com provides free email and websites for everyone in your school. It is a web-based environment focused on students between the ages of 7-13, funded by Oracle Corporation. Every member is given access to the tools and space to create and share their work online.
Accredited public and private schools are welcome to join Think.com in the countries in which Think.com operates. Please consult the School Registration form for our present list of countries. Think.com is continuing to add new countries in cooperation with local ministries of education.

Since 1998, Think.com has grown from a pilot email program into a versatile instructional tool for primary and secondary students and educators. The growth of Think.com is due to the care and support of many people and organizations. We invite you to learn how Think.com came to be by reading the History of Think.com.

We envision that Think.com will be used facilitate the adoption of technology by schools. As the Internet has revolutionized business, we believe that technology will revolutionize education. With its easy to use interface and powerful tools, Think.com allows children at all levels to participate actively in their education.

As a result of using Think.com, students will be motivated to:
        communicate effectively with members of a global community;
        read, reason and write more powerfully;
        conduct thoughtful research into important questions and issues; and
        perform well on demanding standardized tests requiring inferential reasoning.

◆ Internet Sites of Interest

Elements of Art
http://www.artsedge.kennedy-center.org/teaching_materials/curricula/curriculum.cfm?curriculum_id=63&mode=objectives
Intermediate students will be discovering the various uses of line, shape, and color through studying the works of masters such as Miro, Pollock, or Matisse. Students will also be creating vocabulary cards to match up with their critical assessments of major works of art.

Internet Hoaxes
http://www.riverdeep.net/current/2001/10/102901t_hoaxes.jhtml
Virus warnings, chain letters, get rich schemes, rumors...Email is plagued with some innocent, some not so innocuous hoaxes. Find out how to become internet and email savvy here, with good coverage of rumors versus truths and a guideline for students to recognize typical email hoaxes.

The Art of Crime Detection
http://www.sanford-artedventures.com/play/crimedetection/index.html
Middle school students must pay close attention to honing their powers of observation in this online investigation into how art functions in criminal cases. Exercises lead students through careful attention to clues and details as they attempt to identify the mystery suspect.

Summertime, Summertime…
Bubble Fun and Learning
http://www.kinderart.com/across/bubbles.shtml
Wind is the topic of observation and discussion with this bubbles lesson. Students will be coloring their bubbles with food coloring in order to observe their movements, and looking for wind patterns.

Bubble Solutions
http://bubbles.org/solution/

Bubble Tools
http://bubbles.org/html/solutions/tools.htm
Click on each illustration to find detailed instructions for each example of bubble tools. Try the star-shaped hanger bubble wand for an extra challenge.

The Science of Bubbles
http://www.exploratorium.edu/ronh/bubbles/bubbles.html
Hands-on learning takes place with the experiments and activities listed here from the bubble experts at the Exploratorium. Students will examine shape, soap, color, and more; try the Exploratorium's bubble formula, above, and compare it to your own bubble recipe.

Suds—Bubble Art
http://www.sci.mus.mn.us/sln/tf/s/suds/suds.html
A little paint, a little bubble magic, a few paper towels and bowls, and voila, your class has accomplished their very own bubble art.

Meet The Presidents of the United States
http://php.ucs.indiana.edu/~emoe/webquest.html
Upper elementary students will complete this webquest on the American Presidents by selecting their favorite president to research. They will dress up as their hero, giving an oral presentation to the class and including PowerPoint or poster projects, and participating in a question and answer session under the guise of their chosen role.

School Spreadsheet Safari
http://library.thinkquest.org/J0110054/
This Thinkquest project offers a tour through spreadsheet land, where your students will exit as

savvy data organizers and able to find their way around MS Excel. Games, quizzes, and scavenger hunts are included.

Andrea Spalding Bookmarks
http://www.andreaspalding.com/teachers/t_bookmark.htm
If you're a fan of children's author Andrea Spalding, print out some of these beautifully illustrated bookmarks for your students.

Free and Inexpensive Items for Teachers
http://www.kimskorner4teachertalk.com/classmanagement/inexpensive.html
You can always find some inexpensive teaching materials if you know where to look. This site provides ideas for where to find the goods but not pay an arm and a leg.

Summer Leisure Clipart
http://www.clipsahoy.com/leisure/summer.htm
Even if you're stuck inside the classroom this summer, you can still add some summer fun to your worksheets and web pages. Try the clipart graphics at this site for seven pages of sunny images.

Make Your Own Comic Book
http://www.enchantedlearning.com/crafts/books/comicbook/
Here's a great little project for your upper elementary students this summer: have them design and create their own comic book heroes, stories, and books. Once finished, be sure to share them with a younger class.

Printable Butterfly and Caterpillar Book
http://www.enchantedlearning.com/crafts/books/butterflybook/
There's much here to learn about butterflies and caterpillars, with printable pages on anatomy, life cycles (in several different languages!), sequencing cards, calendars, and pages of butterfly species--quite stunning! Let your older students use watercolors to fill in the black and white representations, staying as true to life as possible. When done well, these butterfly books would make great gifts for a younger classroom.

Learn About Africa—Coloring and Activity Book
http://www.enchantedlearning.com/crafts/books/africancountries/
Why not travel to far-off Africa this summer, learning about its wide variety of geographies, cultures, and countries? Students will also learn about major waterways and capital cities in this printable, educational activity booklet. Crafts are also available.

 Way Back Summer Vacation!
http://www.pbs.org/wgbh/amex/kids/summer/
PBS presents the ultimate summer vacations--online. Take a journey through America's favorite road trips, visit Miami Beach, join a summer camp--through their histories! Learn the background and lure of car camping and more as you step back in time in America's vacation playgrounds.

Laura Ingalls Wilder Activities
http://www.pbs.org/wgbh/amex/kids/summer/
If you're headed to Missouri, you're also headed to the land of the much-loved "Little House" series, a classic in American children's literature. Enrich your class readings with the various extension activities collected at this site, where students will map routes, create timelines, make patch quilts, or construct a pioneer town.

Make a Fish Book
http://www.enchantedlearning.com/subjects/fish/printouts/
Lakes and rivers abound in Missouri, which, as our correspondent Jeannette Erter informs us, makes for truly great fishing! If you can't make it to Missouri but want to teach your students something about fish nevertheless, here is an excellent resource for the elementary classroom. Containing pages of info on fish species, sharks, and eels, you can gather these pages for a special summer project: creating your own class fish book! Let each student choose his or her

topic, present it to the class,and add their pages to a class binder, to be kept in your classroom library as a special resource.

Author Study: Dr. Seuss
http://emints.more.net/ethemes/resources/S00001063.html
These sites are about author Theodore Seuss Geisel, a.k.a. Dr. Seuss. Read about his writing career and his famous children's books, plus view his political cartoons. Take a virtual tour of a memorial in his hometown. Several sites include suggested classroom activities and online games to go along with his books, including "Green Eggs and Ham," "Hooray for Diffendoofer Day!" "How the Grinch Stole Christmas," "And to Think I Saw it on Mulberry Street," "The Cat in the Hat," and more.

Animals: Elephants
http://emints.more.net/ethemes/resources/S00001054.html
Learn more about elephants and their diet, habitat, living environment, and relationship with humans. Includes many illustrations, interactive games, and videos.

Animals: Giraffes
http://emints.more.net/ethemes/resources/S00001061.html
These sites are about giraffes, the tallest mammal on earth. Learn about a giraffe's physical characteristics, natural history, and behaviors. Includes lots of fun facts, such as how much this animal's head and neck weigh. Listen to an audio file of giraffe sounds or watch several videos.

Animals: Hippopotamuses
<http://emints.more.net/ethemes/resources/S00001078.html>
These sites are about hippopotamuses, which are large, river-living mammals. Learn about their physical characteristics, behavior, and social structure. Find out how hippos stay underwater for as long as 15 minutes. Watch several videos and listen to audio files.

Animals: Missouri Birds
<http://emints.more.net/ethemes/resources/S00001080.html>
These sites have information about several species of birds found in Missouri. The birds covered include the bluebird, ruby-throated hummingbird, red-headed woodpecker, and the great blue heron. Read about their physical appearance, habitat, behavior, diet, and nesting. Listen to their calls and view many photographs. Includes a link to an eThemes Resource on birds.

Animals: Missouri Frogs and Toads
<http://emints.more.net/ethemes/resources/S00001083.html>
These sites are about Missouri's frogs and toads including gray treefrogs, American toads, green frogs, and wood frogs. Learn about the physical characteristics, food, reproduction, habitat, and behavior of each species.

Animals: Missouri Lizards
<http://emints.more.net/ethemes/resources/S00001082.html>
These sites are about Missouri's 13 species of lizards. Includes information on the eastern collared lizard, five-lined skink, racerunner, western slender glass lizard, and more. Learn about the physical characteristics, food, reproduction, habitat, and behavior of each species. Includes several photographs.

Animals: Missouri Turtles
<http://emints.more.net/ethemes/resources/S00001079.html>
These sites are about Missouri turtles, including snapping turtles, alligator snapping turtles, stinkpot turtles, three-toed box turtles, and ornate box turtles. Learn about the physical characteristics, diet, reproduction, habitat, and behaviors of each type. View several photographs of these turtles in the wild.

Animals: Rhinoceros
<http://emints.more.net/ethemes/resources/S00001077.html>
These sites are about rhinoceroses, the second biggest land mammal. Learn about the five species and their physical characteristics, behavior, and habitats. Find out why these animals are endangered and what is being done to protect them. View live images from a Webcam, watch several videos, and take online quizzes. There is a link to an eThemes Resource on endangered animals.

Author Study: Laura Numeroff
<http://emints.more.net/ethemes/resources/S00001057.html>
This is a collection of sites about author Laura Numeroff and her circle stories. Includes biographical information about her life and work. There are several suggested classroom activities to go along with the books: "If You Give a Mouse a Cookie," "If You Give a Pig a Pancake," "If You Give a Moose a Muffin," "Dogs Don't Wear Sneakers," and "If You Take a Mouse to School." There is a link to an eThemes Resource on mice.

Civil Rights Movement
<http://emints.more.net/ethemes/resources/S00001084.html>
These sites are about the Civil Rights Movement in the U.S. from 1954-1971. Includes several timelines with the major events of the era highlighted. Take an online tour of several historical spots. Topics include the Montgomery Bus Boycott, Greensboro Sit-Ins, Little Rock Central High School, Civil Rights Act of 1964, Voting Rights Act of 1965, and Brown vs. Board of Education of Topeka. Read about civil rights leader Malcolm X and a first-hand account of the Freedom Rides of 1961. There are links to eThemes Resources on Rosa Parks, Ruby Bridges, Martin Luther King, Jr., and Black History Month.

Country: Spain
<http://emints.more.net/ethemes/resources/S00001059.html>
Learn more about the country of Spain and its culture, food, holidays, sports, and history. Other topics include bullfighting, flamenco dancing, football (soccer), Miguel Indurain, and Holy Week. Includes classroom activities for studying Spain and its culture. There is a link to an eThemes Resource on the Spanish language.

Dance History
<http://emints.more.net/ethemes/resources/S00001031.html>
These sites explain the origins of different dancing styles, such as jazz, tap, break and square dancing. Includes pictures and movie clips of dance performances
.
Famous People: Benjamin Franklin
<http://emints.more.net/ethemes/resources/S00001053.html>
Learn about Benjamin Franklin and his achievements as an inventor, scientist, and statesman. Includes many lesson plans and hands-on activities to explore his contributions to society. There are also interactive games and video clips.

Famous People: Helen Keller
<http://emints.more.net/ethemes/resources/S00001091.html>
Read about Helen Keller, a deaf, blind woman who fought for the rights of people with vision and hearing problems. Learn how she communicated with others and used this talent to share her ideas and beliefs. Includes letters, memorabilia, and several photographs, plus suggested classroom activities. There is a link to an eThemes Resource on disability awareness.

Famous People: Ruby Bridges
<http://emints.more.net/ethemes/resources/S00001070.html>
These sites are about Ruby Bridges and her involvement in the Civil Rights Movement. Read about the Ruby Bridges Foundation. Includes classroom activities, biographies, interviews, and photographs, plus information about a movie and books based on her life. There is a link to an eThemes Resource on the Civil Rights Movement.

Fashion and Costume Design
<http://emints.more.net/ethemes/resources/S00001052.html>
These sites are about fashion and costume design. Learn about fashion through history, see fashion design sketches, and read how they are made. Includes information about careers in fashion and costume design. There is also a classroom activity about making fashion sketches.

Geography: Ocean: Fishing and Oil Drilling
<http://emints.more.net/ethemes/resources/S00001075.html>
These sites are about oil drilling, aquaculture, and fishing. Includes activities, lesson plans, and photographs. There are links to eThemes Resources on oceans and ocean animals.

Holiday: Father's Day
<http://emints.more.net/ethemes/resources/S00001032.html>
Learn about the origin of Father's Day, which is celebrated the third Sunday in June. Includes online quizzes, poems, and games. There are cards that can be printed out as well as greeting cards that can be sent through e-mail.

Math: Everyday Uses
<http://emints.more.net/ethemes/resources/S00001055.html>
These sites show how math is used in our daily lives. There are examples, student activities, and interactive games. Students can explore how math is used in their homes, at the grocery store, and in sports. Includes links to eThemes Resources on time, money, and word problems.

Math: Journals
<http://emints.more.net/ethemes/resources/S00001060.html>
These sites offer tips on how to help students write their reflections about math in a journal. Includes writing prompts, examples, lesson plans, and rubrics.

Protozoa
<http://emints.more.net/ethemes/resources/S00001085.html>
Learn about many different types of protozoa and their life cycles. Includes many microscopic images and some videos. Find out what types of diseases are caused by these microbes. There is a link to an eThemes Resource on the scientific method.

This Day in History
<http://emints.more.net/ethemes/resources/S00001090.html>
These sites let you type in a date to find out what major events took place during that time period. Students can use these sites when researching what took place on their birthdays. The topics covered include world news, sports, and entertainment. There are statistics such as the cost of bread, average salary, and world population.

Updated eThemes
 Animals: Food Chains and Webs
<http://emints.more.net/ethemes/resources/S00000328.html>
These sites are about food chains and food webs. Includes examples of webs and chains with animals from various biomes. Learn about consumers, producers, prey, predators, herbivores, omnivores, and carnivores. There is a short animated movie, online games, and suggested classroom activities.

Grammar: Paragraphs
<http://emints.more.net/ethemes/resources/S00000446.html>
These sites are about paragraphs and include examples on how to write good paragraphs. Learn how sentences can be arranged to form paragraphs. There are classroom activities and online writing exercises for students.

Grammar: Sentences
<http://emints.more.net/ethemes/resources/S00000357.html>
These sites cover the different types of sentences. Includes examples of interrogative, declarative, imperative, and exclamatory sentences. Also learn about run-on, compound, and complex sentences. Discover which punctuation ends certain types of sentences. There are online quizzes and games to practice identifying complete sentences and proper punctuation.